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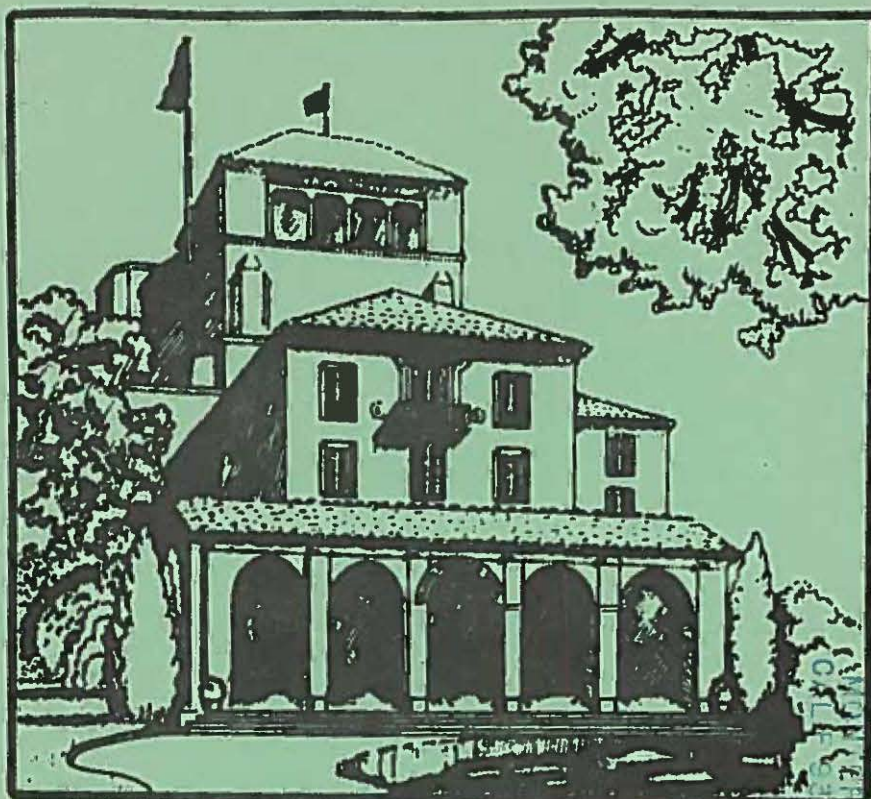
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FACULTY BULLETIN

14 October 1968

NEW NPGS FACULTY

Philip G. Calabrese, Assistant Professor of Mathematics

Professor Calabrese received the B. S. Degree in 1963, the M. S. Degree in 1965, and the Ph. D. Degree in January 1968, from the Illinois Institute of Technology, all with a major in Mathematics. His doctoral research was in the field of probabilistic metric spaces. From January 1968 until coming to the Postgraduate School, Professor Calabrese served as an Instructor at Illinois Institute of Technology and Rosary College, River Forest, Illinois. He joined the faculty of the Department of Mathematics in September 1968.

Commander James L. Fletcher, USN

CDR Fletcher joined the faculty of the Aviation Safety Programs as Instructor in Aeronautical Engineering in August 1968, coming from a three-year tour with the Naval Aviation Safety Center in Norfolk, Virginia. CDR Fletcher was designated a Naval Aviator in 1949, and has served in patrol squadrons, a transport squadron, and as Air Officer on the USS Salisbury Sound (AV-13). He received the B. S. Degree in Aeronautical Engineering from the University of Oklahoma in 1959, and the following year completed the General Line Course at the Naval Postgraduate School. In 1965 he graduated from the Armed Forces Staff College in Norfolk.

Robert Kessler, Visiting Assistant Professor of Aeronautics

Professor Kessler has joined the faculty of the Department of Aeronautics on a National Research Council Postdoctoral Research Associateship. He studied aeronautical engineering at the Massachusetts Institute of Technology, receiving the B. S. Degree in 1960 and the M. S. Degree in 1961. From 1961 to 1963 he was with the Avco Corporation RAD Division, engaged in the development of arc-jets and crossed-field accelerators to produce high energy gas flows for re-entry studies. He received the Ph. D. Degree in Mechanical Engineering from Stanford University in 1968. His research work was concerned with magnetohydrodynamic power generation.

Stevens P. Tucker, Assistant Professor of Oceanography

Professor Tucker received the B. S. Degree from Stanford University in 1955 and the M. S. Degree from Oregon State University in 1963, both with a major in physics and minor in mathematics. He will complete the requirements for the Ph. D. Degree in Oceanography at Oregon State University in the fall of 1968. His Ph. D. research was in the field of measure and interpretation of the in situ light scattering properties of sea water. As a graduate student he served as a research assistant in the Oceanography Department of Oregon State, and worked in his research area at the Navy Electronics Laboratory in San Diego during the summers of 1965 and 1966 and during 1967. He joined the faculty of the Department of Oceanography in August 1968.

FACULTY PUBLICATIONS

Sarpkaya, T.

The vortex valve and the angular rate sensor, Fluidics Quarterly, Vol. I, No. 3, p. 1-8. September 1968.

Abstract:

This paper presents a critical discussion of the performance characteristics of two vortex devices--the vortex valve and the angular rate sensor. The similar and dissimilar features of the devices, new theoretical and experimental results for predicting the characteristics of these devices, and suitable comparisons of the theoretical and experimental results are presented.

Williamson, T. J., and Albrecht, R. W.

The approach to the asymptotic density of neutrons slowing down from a delta-function source. Nuclear Science and Engineering, Vol. 33, No. 1, p. 141-143. July 1968.

Zehna, Peter W.

A clarification in LIFO vs FIFO, Management Science: Theory, Vol. 14, No. 11, p. 734-735, July, 1968.

Abstract:

A point of confusion regarding the use of the term inverse function has arisen in the treatment of field life functions in inventory depletion. A recently cited article on the subject uses the term in a non-standard manner so that the quoted results are in direct conflict with theorems previously established by the author. This article clarifies the issue.

Zucker, Robert D.

Interpretation of the singularities in Lamé products of the second kind. SIAM Journal on Applied Mathematics, Vol. 16, No. 4, p. 882-887. July 1968.

Abstract:

When dealing with ellipsoidal coordinates, one encounters Lamé products; and it is shown that those of the second kind can be interpreted as continuous distributions of singularities. The 1st and 2nd class represent source-sink distributions whereas the 3rd and 4th class represent doublet distributions.

PRINCIPAL PROFESSIONAL ACTIVITIES

Professor H. P. Ecker, Executive Director of the Navy Management Systems Center, addressed the Defense Management Weapons Systems Center class at Wright-Patterson AFB on 11 October. His speech was entitled, 'The World of Change. "

Professor R. E. Gaskell, Chairman of the Department of Mathematics, has recently returned from a conference of the Deans of Engineering and Chairmen of Mathematics Departments of the Mid-American State Universities Association in Norman, Oklahoma, where he gave an invited talk. The meeting concerned the place of mathematics in Engineering Education, and quickly turned from a discussion of what to offer, to consideration of how it should be presented.

Associate Professor H. Arthur Hoverland of the Department of Business Administration and Economics presented a paper entitled "Differential Feedback to Participants in a Decision Simulation" at the European Meeting of IMS, TIMS, ES, and IASPS held at Amsterdam, September 2-7, 1968. He was also coauthor of a paper presented at The Institute of Management Sciences 15th International Meeting held in Cleveland, September 11-13, 1968, and was coorganizer of the College on Management Psychology session at this Conference.

Professor Hoverland has been appointed Membership Chairman (northern California) of the American Accounting Association for 1969-1971.

Professor Dale F. Leipper, Chairman of the Department of Oceanography, was the keynote speaker at the National Conference on Marine Sciences in Education held on Santa Catalina Island 4-6 October. His topic was 'Responsibility of the Teacher Regarding the Sea as a Component of Contemporary Education. "

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The following members of the Faculty are in "The Man Who Came to Dinner," which opened at King Hall Friday 11 October.

Alan McMasters
Jim Taylor
Jim Demetry
Don Layton
Frank Childs

Operations Analysis
Operations Analysis
Electrical Engineering
Aeronautics
Navy Management Systems Center

DISTINGUISHED VISITORS

The Honorable Eugene M. Becker, Assistant Secretary of the Army (Financial Management) will address the Defense Management Systems Class on 18 October at 10 o'clock. His talk will be followed by a question and answer session.

* * *

Major General Chang Chih-Wan, Commanding General of the NCO School, Chinese Marine Corps, will visit the Postgraduate School on an orientation tour on 22 October.

ENROLLMENT

QUARTER II, ACADEMIC YEAR 1968-1969

Curriculum	QTR II	QTR II, AY 1968-1969						
	AY 1967-68	Total	USN	USMC	USCG	USA	USAF	Allied
<u>ro Eng</u>	61	51	43	5				3
Aero (IGEP)	<u>10</u>	<u>9</u>	8	1				
	71	60						
<u>ex-Comm</u>								
Electronics	124	103	51	19	4			29
Comm Engr	41	47	24	8	7			8
Electronics (IGEP)	--	13	10	3				
Staff Comm.	11	13	13					
Adv. Sci. (Math)	4	--						
Comm Engr(IGEP)	<u>--</u>	<u>1</u>	1					
	180	177						
<u>dnance Engr</u>								
Ordnance Engr	57	59	38	2				19
Ordnance (IGEP)	--	13	11	2				
Nuclear Engr(Eff)	37	35	6	1	3	21	4	
Under Water Phy	30	22	20					2
Adv Sci (Phy)	12	9	9					
Adv Sci (IGEP)	<u>--</u>	<u>10</u>	10					
	136	148						
<u>val Engr</u>								
Naval Engr	77	56	38		1			17
Naval Engr(IGEP)	--	13	13					
Math (IGEP)	<u>14</u>	<u>11</u>	10	1				
	91	80						
<u>vironmental Sci</u>								
Meteorology	39	50	47					3
Oceanography	87	101	96		3			2
Oceanography (IGEP)	<u>--</u>	<u>2</u>	2					
	126	153						
<u>t, ORSA, CompSys</u>								
Management	110	109	70	27	10			2
Econ/Mgt(IGEP)	--	14	13	1				
Opns Analysis	164	213	97	52	3	58		3
OA (IGEP)	--	5	5					
Computer SysMgt	42	123	108	7		6		2
Computer Sci	<u>10</u>	<u>26</u>	24	2				
	326	490						
<u>gineering Sci</u>	51	67	58					9
<u>ccalaureate</u>								
BS	106	92	92					
BA	<u>106</u>	<u>90</u>	90					
	212	182						
TALS	1193	1357	1007	131	31	85	4	99

CALENDAR OF PROFESSIONAL TRIPS

orted by BuPers

1. Jung	10/16-10/19	Lake Arrowhead	Attend 15th Annual East Pacific Oceanic Conference
2. Crittenden	10/20-10/27	Albuquerque NM Denver, Col. Fort Collins, Col. Las Cruces, NM Provo, Utah Moscow, Idaho Bozeman, Mont. Seattle, Wash.	Present seminars as participant in the Colloquium Association of Universities.
3. Kodres	10/20-10/26	Philadelphia	Attend Fall Meeting of SIAM

-BuPers Support

4. Cantin	10/2-11/20	China Lake	Research work in structural mechanics with Dr. Adicoff's group.
5. Medwin	10/15	San Francisco	Att. Experimental Hot Wire/Film Anemometry Clinic
6. Hoisington	10/14-10/19	Ft Monmouth, NJ Washington	Visit NASC; Attend 14th Ann Joint ECM Planning Conference.
7. Marshall	10/15	China Lake Newport Beach	Conf. with personnel of Philco-Ford Corp., Aeronutronic Division.
8. Crittenden	10/17-10/20	Los Alamos	Present seminar and discuss research topics.
9. Reese	10/21-10/26	Seattle	Present seminar, U. of Wash. discuss research topics.

